Refine Search

Search Results -

Terms	Documents
L9 and L8	59

Database:
```
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
```

Search: `L10`

[Refine Search]

[Recall Text ⬍]   [Clear]   [Interrupt]

Search History

DATE: Wednesday, July 20, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L10	L9 and L8	59	L10
L9	("prediction model" or "predictive model")	3811	L9
L8	L7 and (L6 or L5 or L4 or L3)	2806	L8
L7	neur$8	172047	L7
L6	"modular neural network"	138	L6
L5	"Associative Neural Network" or ASNN	90	L5
L4	"committee of machines"	0	L4
L3	ensemble	14537	L3
L2	neur$8 and ensemble	2659	L2
DB=USPT; PLUR=YES; OP=OR			
L1	6591254	1	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L12 and L9	49

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L14

Refine Search

Recall Text ⬍   Clear   Interrupt

Search History

DATE: Wednesday, July 20, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L14	L12 and L9	49	L14
L13	L12 and L11	710	L13
L12	L11 and (L6 or L5 or L4 or L3)	710	L12
L11	"neural network"	25536	L11
L10	L9 and L8	59	L10
L9	("prediction model" or "predictive model")	3811	L9
L8	L7 and (L6 or L5 or L4 or L3)	2806	L8
L7	neur$8	172047	L7
L6	"modular neural network"	138	L6
L5	"Associative Neural Network" or ASNN	90	L5
L4	"committee of machines"	0	L4
L3	ensemble	14537	L3
L2	neur$8 and ensemble	2659	L2
DB=USPT; PLUR=YES; OP=OR			

L1   6591254   1   L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L17	28

Database:

```
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
```

Search: L18   [Refine Search]

[Recall Text]   [Clear]   [Interrupt]

Search History

DATE: Wednesday, July 20, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L18	L17	28	L18
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L17	ensemble near L11	66	L17
L16	ensemble near network	83	L16
L15	(L6 or L5 or L4 or L3)	14717	L15
L14	L12 and L9	49	L14
L13	L12 and L11	710	L13
L12	L11 and (L6 or L5 or L4 or L3)	710	L12
L11	"neural network"	25536	L11
L10	L9 and L8	59	L10
L9	("prediction model" or "predictive model")	3811	L9
L8	L7 and (L6 or L5 or L4 or L3)	2806	L8
L7	neur$8	172047	L7
L6	"modular neural network"	138	L6

L5	"Associative Neural Network" or ASNN	90	L5
L4	"committee of machines"	0	L4
L3	ensemble	14537	L3
L2	neur$8 and ensemble	2659	L2

DB=USPT; PLUR=YES; OP=OR

| L1 | 6591254 | 1 | L1 |

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1.   Document ID: US 6915241 B2

L18: Entry 1 of 28   File: USPT   Jul 5, 2005

US-PAT-NO: 6915241
DOCUMENT-IDENTIFIER: US 6915241 B2

TITLE: Method for segmentation and identification of nonstationary time series

DATE-ISSUED: July 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohlmorgen; Jens	Berlin			DE
Lemm; Steven	Berlin			DE

US-CL-CURRENT: 702/189; 700/102, 700/103, 701/107, 701/92, 701/97, 702/179, 702/32, 702/50, 704/260, 704/500, 704/503, 714/51

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐ 2.   Document ID: US 6915212 B2

L18: Entry 2 of 28   File: USPT   Jul 5, 2005

US-PAT-NO: 6915212
DOCUMENT-IDENTIFIER: US 6915212 B2

TITLE: Systems and methods for processing complex data sets

DATE-ISSUED: July 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kamps; Bill	Houston	TX		

US-CL-CURRENT: 702/14

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

⌐ 3.   Document ID: US 6885968 B2

L18: Entry 3 of 28   File: USPT   Apr. 26, 2005

US-PAT-NO: 6885968
DOCUMENT-IDENTIFIER: US 6885968 B2

TITLE: Vehicular exterior identification and monitoring system-agricultural product
distribution

DATE-ISSUED: April 26, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		

US-CL-CURRENT: 702/143; 702/142, 702/149, 702/159

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

⌐ 4.   Document ID: US 6850824 B2

L18: Entry 4 of 28   File: USPT   Feb 1, 2005

US-PAT-NO: 6850824
DOCUMENT-IDENTIFIER: US 6850824 B2

TITLE: Method and apparatus for controlling a vehicular component

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		

US-CL-CURRENT: 701/36; 701/29, 701/34

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

⌐ 5.   Document ID: US 6784379 B2

L18: Entry 5 of 28   File: USPT   Aug 31, 2004

US-PAT-NO: 6784379
DOCUMENT-IDENTIFIER: US 6784379 B2

TITLE: Arrangement for obtaining information about an occupying item of a seat

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		

US-CL-CURRENT: <u>177/144</u>; <u>180/273</u>, <u>280/735</u>, <u>701/45</u>, <u>701/49</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

    ⌐ 6.   Document ID: US 6782316 B2

L18: Entry 6 of 28   File: USPT   Aug 24, 2004

US-PAT-NO: 6782316
DOCUMENT-IDENTIFIER: US 6782316 B2

TITLE: Apparatus and method for adjusting a steering wheel

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		

US-CL-CURRENT: <u>701/49</u>; <u>180/273</u>, <u>318/467</u>, <u>701/45</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

    ⌐ 7.   Document ID: US 6757602 B2

L18: Entry 7 of 28   File: USPT   Jun 29, 2004

US-PAT-NO: 6757602
DOCUMENT-IDENTIFIER: US 6757602 B2

TITLE: System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		
Morin; Jeffrey L.	Lincoln Park	MI		

Xu; Kunhong	Rochester Hills	MI	
Kussul; Michael E.	Kyiv		UA
Chen; Tie-Qi	Windsor		CA

US-CL-CURRENT: <u>701</u>/<u>45</u>; <u>180</u>/<u>268</u>, <u>180</u>/<u>271</u>, <u>280</u>/<u>735</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 8.   Document ID: US 6738697 B2

L18: Entry 8 of 28   File: USPT   May 18, 2004

US-PAT-NO: 6738697
DOCUMENT-IDENTIFIER: US 6738697 B2

TITLE: Telematics system for vehicle diagnostics

DATE-ISSUED: May 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		

US-CL-CURRENT: <u>701</u>/<u>29</u>; <u>701</u>/<u>34</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 9.   Document ID: US 6735506 B2

L18: Entry 9 of 28   File: USPT   May 11, 2004

US-PAT-NO: 6735506
DOCUMENT-IDENTIFIER: US 6735506 B2

TITLE: Telematics system

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		

US-CL-CURRENT: <u>701</u>/<u>36</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   10.   Document ID: US 6697457 B2

L18: Entry 10 of 28   File: USPT   Feb. 24, 2004

US-PAT-NO: 6697457
DOCUMENT-IDENTIFIER: US 6697457 B2

TITLE: Voice messaging system that organizes voice messages based on detected emotion

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrushin; Valery A.	Buffalo Grove	IL		

US-CL-CURRENT: <u>379/88.08</u>; <u>704/205</u>, <u>704/209</u>, <u>704/270</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequence | Attachment | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L17	28

Display Format: [- _ _] | Change Format |

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| Generate OACS |

Search Results - Record(s) 11 through 20 of 28 returned.

☐ 11. Document ID: US 6671391 B1

L18: Entry 11 of 28   File: USPT   Dec 30, 2003

US-PAT-NO: 6671391
DOCUMENT-IDENTIFIER: US 6671391 B1

TITLE: Pose-adaptive face detection system and process

DATE-ISSUED: December·30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; Hong-Jiang	Beijing			CN
Yong; Ma	Beijing			CN

US-CL-CURRENT: 382/118; 382/159

| Full | Title | Citation | Front | Review | Classification | Date | Reference | 身份验证 | 附加说明信息 | Claims | KWIC | Draw De |

☐ 12. Document ID: US 6526168 B1

L18: Entry 12 of 28   File: USPT   Feb 25, 2003

US-PAT-NO: 6526168
DOCUMENT-IDENTIFIER: US 6526168 B1

TITLE: Visual neural classifier

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ornes; Chester	Garden Grove	CA		
Sklansky; Jack	Corona Del Mar	CA		

US-CL-CURRENT: 382/158; 706/20, 706/31

| Full | Title | Citation | Front | Review | Classification | Date | Reference | 身份验证 | 附加说明信息 | Claims | KWIC | Draw De |

⌐ 13.   Document ID: US 6484080 B2

L18: Entry 13 of 28   File: USPT   Nov 19, 2002

US-PAT-NO: 6484080
DOCUMENT-IDENTIFIER: US 6484080 B2

TITLE: Method and apparatus for controlling a vehicular component

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:
NAME   CITY   STATE ZIP CODE COUNTRY
Breed; David S.   Boonton Township, Morris County NJ

US-CL-CURRENT: <u>701/36</u>; <u>701/29</u>, <u>701/34</u>.

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

⌐ 14.   Document ID: US 6480826 B2

L18: Entry 14 of 28   File: USPT   Nov 12, 2002

US-PAT-NO: 6480826
DOCUMENT-IDENTIFIER: US 6480826 B2
** See image for <u>Certificate of Correction</u> **

TITLE: System and method for a telephonic emotion detection that provides operator feedback

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:
NAME   CITY   STATE ZIP CODE COUNTRY
Pertrushin; Valery A.   Arlington Heights   IL

US-CL-CURRENT: <u>704/270</u>; <u>704/273</u>, <u>704/274</u>, <u>704/275</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

⌐ 15.   Document ID: US 6463415 B2

L18: Entry 15 of 28   File: USPT   Oct 8, 2002

US-PAT-NO: 6463415
DOCUMENT-IDENTIFIER: US 6463415 B2
** See image for <u>Certificate of Correction</u> **

TITLE: 69voice authentication system and method for regulating border crossing

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
St. John; Vicki	Boulder Creek	CA		

US-CL-CURRENT: <u>704</u>/<u>273</u>; <u>600</u>/<u>300</u>, <u>600</u>/<u>407</u>, <u>704</u>/<u>231</u>, <u>704</u>/<u>270</u>, <u>704</u>/<u>272</u>, <u>704</u>/<u>275</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□ 16. Document ID: US 6456991 B1

L18: Entry 16 of 28   File: USPT   Sep 24, 2002

US-PAT-NO: 6456991
DOCUMENT-IDENTIFIER: US 6456991 B1

TITLE: Classification method and apparatus based on boosting and pruning of multiple classifiers

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasa; Narayan	Thousand Oaks	CA		
Owechko; Yuri	Newbury Park	CA		

US-CL-CURRENT: <u>706</u>/<u>20</u>; <u>704</u>/<u>9</u>, <u>706</u>/<u>16</u>, <u>706</u>/<u>25</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□ 17. Document ID: US 6445988 B1

L18: Entry 17 of 28   File: USPT   Sep 3, 2002

US-PAT-NO: 6445988
DOCUMENT-IDENTIFIER: US 6445988 B1

TITLE: System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breed; David S.	Boonton Township, Morris County	NJ		
DuVall; Wilbur E.	Kimberling City	MO		
Johnson; Wendell C.	Signal Hill	CA		
Morin; Jeffrey L.	Lincoln Park	MI		
Xu; Kunhong	Rochester Hills	MI		
Kussul; Michael E.	Kyiv			UA

US-CL-CURRENT: <u>701</u>/<u>45</u>; <u>180</u>/<u>268</u>, <u>180</u>/<u>271</u>, <u>280</u>/<u>735</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

    ⌐ 18.   Document ID: US 6427137 B2

L18: Entry 18 of 28   File: USPT   Jul 30, 2002

US-PAT-NO: 6427137
DOCUMENT-IDENTIFIER: US 6427137 B2
** See image for <u>Certificate of Correction</u> **

TITLE: System, method and article of manufacture for a voice analysis system that detects nervousness for preventing fraud

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrushin; Valery A.	Arlington Heights	IL		

US-CL-CURRENT: <u>704</u>/<u>273</u>; <u>704</u>/<u>209</u>, <u>704</u>/<u>270</u>, <u>704</u>/<u>272</u>, <u>704</u>/<u>275</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

    ⌐ 19.   Document ID: US 6353810 B1

L18: Entry 19 of 28   File: USPT   Mar 5, 2002

US-PAT-NO: 6353810
DOCUMENT-IDENTIFIER: US 6353810 B1
** See image for <u>Certificate of Correction</u> **

TITLE: System, method and article of manufacture for an emotion detection system improving emotion recognition

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petrushin; Valery A.	Arlington Heights	IL		

US-CL-CURRENT: <u>704</u>/<u>236</u>; <u>704</u>/<u>246</u>, <u>704</u>/<u>270</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

    ⌐ 20.   Document ID: US 6275806 B1

L18: Entry 20 of 28   File: USPT   Aug 14, 2001

US-PAT-NO: 6275806
DOCUMENT-IDENTIFIER: US 6275806 B1

TITLE: System method and article of manufacture for detecting emotion in voice
signals by utilizing statistics for voice signal parameters

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pertrushin; Valery A.	Arlington Heights	IL		

US-CL-CURRENT: 704/272; 704/270

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L17	28

Display Format: |- ___ | | Change Format |

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Hit List

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |

| Generate OACS |

Search Results - Record(s) 21 through 28 of 28 returned.

☐ 21.   Document ID: US 6151571 A

L18: Entry 21 of 28   File: USPT   Nov 21, 2000

US-PAT-NO: 6151571
DOCUMENT-IDENTIFIER: US 6151571 A

TITLE: System, method and article of manufacture for detecting emotion in voice signals through analysis of a plurality of voice signal parameters

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pertrushin; Valery A.	Arlington Heights	IL		

US-CL-CURRENT: 704/209; 704/207, 704/270

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 22.   Document ID: US 6135965 A

L18: Entry 22 of 28   File: USPT   Oct 24, 2000

US-PAT-NO: 6135965
DOCUMENT-IDENTIFIER: US 6135965 A

TITLE: Spectroscopic detection of cervical pre-cancer using radial basis function networks

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tumer; Kagan	Sunnyvale	CA		
Ramanujam; Nirmala	Philadelphia	PA		
Richards-Kortum; Rebecca	Austin	TX		
Ghosh; Joydeep	Austin	TX		

US-CL-CURRENT: 600/476; 128/925, 600/408

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

Γ   23.   Document ID: US 6009199 A

L18: Entry 23 of 28   File: USPT   Dec 28, 1999

US-PAT-NO: 6009199
DOCUMENT-IDENTIFIER: US 6009199 A

TITLE: Classification technique using random decision forests

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Ho; Tin Kam   Cedar Grove   NJ

US-CL-CURRENT: 382/224; 382/226, 382/227

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

⊏   24.   Document ID: US 5930392 A

L18: Entry 24 of 28   File: USPT   Jul 27, 1999

US-PAT-NO: 5930392
DOCUMENT-IDENTIFIER: US 5930392 A

TITLE: Classification technique using random decision forests

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Ho; Tin Kam   Cedar Grove   NJ

US-CL-CURRENT: 382/224; 382/226, 382/227

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

Γ   25.   Document ID: US 5776063 A

L18: Entry 25 of 28   File: USPT   Jul 7, 1998

US-PAT-NO: 5776063
DOCUMENT-IDENTIFIER: US 5776063 A

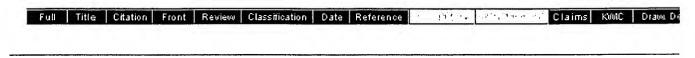TITLE: Analysis of ultrasound images in the presence of contrast agent

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dittrich; Howard	San Diego	CA		
Levene; Harold	San Diego	CA		
Mjolsness; Eric	Encinitas	CA		

US-CL-CURRENT: 600/408; 600/458

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D

⌐ 26. Document ID: US 5502688 A

L18: Entry 26 of 28   File: USPT   Mar 26, 1996

US-PAT-NO: 5502688
DOCUMENT-IDENTIFIER: US 5502688 A

TITLE: Feedforward neural network system for the detection and characterization of sonar signals with characteristic spectrogram textures

DATE-ISSUED: March 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Recchione; Michael C.	Nutley	NJ		
Russo; Anthony P.	Bloomfield	NJ		

US-CL-CURRENT: 367/131; 367/135, 367/901

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D

⌐ 27. Document ID: EP 1378855 A2

L18: Entry 27 of 28   File: EPAB   Jan 7, 2004

PUB-NO: EP001378855A2
DOCUMENT-IDENTIFIER: EP 1378855 A2
TITLE: Exploiting ensemble diversity for automatic feature extraction

PUBN-DATE: January 7, 2004

INVENTOR-INFORMATION:

NAME	COUNTRY
YAO, XIN PROF DR	GB
BROWN, GAVIN	GB
SENDHOFF, BERNHARD	DE
WERSING, HEIKO	DE

INT-CL (IPC): G06 K 9/62
EUR-CL (EPC): G06K009/62; G06K009/66

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 28.   Document ID: IE 83594 B, WO 200261679 A2, IE 82434 B3, AU 2002230051 A1, EP 1417643 A2, US 20040093315 A1

L18: Entry 28 of 28   File: DWPI   Sep 22, 2004

DERWENT-ACC-NO: 2002-548570
DERWENT-WEEK: 200462
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TITLE: Prediction model generation for neural network training, trains an ensemble
of neural networks, estimates a performance error value and uses it to train a
subsequent ensemble of neural networks in an iterative process

INVENTOR: CARNEY, J

PRIORITY-DATA: 2001IE-0000075 (January 31, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
IE 83594 B	September 22, 2004		000	G06N003/04
WO 200261679 A2	August 8, 2002	E	030	G06N003/08
IE 82434 B3	August 21, 2002		000	G06F015/18
AU 2002230051 A1	August 12, 2002		000	G06N003/08
EP 1417643 A2	May 12, 2004	E	000	G06N003/04
US 20040093315 A1	May 13, 2004		000	G06G007/62

INT-CL (IPC): G06 F 15/18; G06 G 7/62; G06 K 9/66; G06 N 3/04; G06 N 3/08

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

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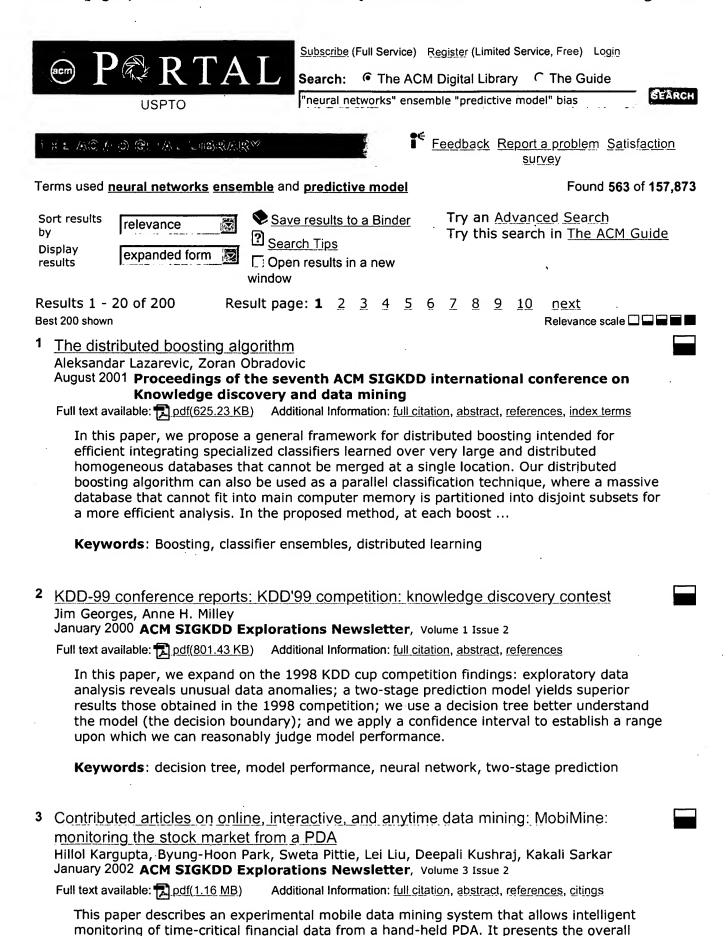
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1 The distributed boosting algorithm   ⬓

Aleksandar Lazarevic, Zoran Obradovic

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 🗎 pdf(625.23 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose a general framework for distributed boosting intended for efficient integrating specialized classifiers learned over very large and distributed homogeneous databases that cannot be merged at a single location. Our distributed boosting algorithm can also be used as a parallel classification technique, where a massive database that cannot fit into main computer memory is partitioned into disjoint subsets for a more efficient analysis. In the proposed method, at each boost ...

Keywords: Boosting, classifier ensembles, distributed learning

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2 KDD-99 conference reports: KDD'99 competition: knowledge discovery contest   ⬓

Jim Georges, Anne H. Milley

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: 🗎 pdf(801.43 KB)   Additional Information: full citation, abstract, references

In this paper, we expand on the 1998 KDD cup competition findings: exploratory data analysis reveals unusual data anomalies; a two-stage prediction model yields superior results those obtained in the 1998 competition; we use a decision tree better understand the model (the decision boundary); and we apply a confidence interval to establish a range upon which we can reasonably judge model performance.

Keywords: decision tree, model performance, neural network, two-stage prediction

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3 Contributed articles on online, interactive, and anytime data mining: MobiMine: monitoring the stock market from a PDA   ⬓

Hillol Kargupta, Byung-Hoon Park, Sweta Pittie, Lei Liu, Deepali Kushraj, Kakali Sarkar

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available: 🗎 pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings

This paper describes an experimental mobile data mining system that allows intelligent monitoring of time-critical financial data from a hand-held PDA. It presents the overall

system architecture and the philosophy behind the design. It explores one particular aspect of the system---automated construction of personalized focus area that calls for user's attention. This module works using data mining techniques. The paper describes the data mining component of the system that employs a novel Four ...

4 Reports: Protein matching with custom neural network objective functions

David S. Vogel, Eric Gottschalk, Morgan C. Wang
December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2

Full text available: 🔲 pdf(155.45 KB)   Additional Information: full citation, abstract, references

This 2004 KDD Cup presents a perfect case where the usual neural network objective functions do not apply. While the contest problem consisted of 4 different entries with 4 different objective functions, this paper will focus on the solution optimizing GRMSE (Grouped Root Mean Squared Error). It will be shown that the more typical objective functions (including RMSE) cannot be as effective at meeting this criteria. While this objective function may be specific to this problem, and the reader may ...

Keywords: KDD, KDD Cup, MITCH, classification, homology, machine learning, neural networks, objective functions, protein

5 Special issue on learning from imbalanced datasets: Minority report in fraud detection: classification of skewed data

Clifton Phua, Damminda Alahakoon, Vincent Lee
June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available: 🔲 pdf(262.38 KB)   Additional Information: full citation, abstract, references, citings

This paper proposes an innovative fraud detection method, built upon existing fraud detection research and *Minority Report*, to deal with the data mining problem of skewed data distributions. This method uses backpropagation (BP), together with naive Bayesian (NB) and C4.5 algorithms, on data partitions derived from minority oversampling with replacement. Its originality lies in the use of a single meta-classifier (stacking) to choose the best base classifiers, and then combine these base ...

Keywords: fraud detection, meta-learning, multiple classifier systems

6 Papyrus: a system for data mining over local and wide area clusters and super-clusters

S. Bailey, R. Grossman, H. Sivakumar, A. Turinsky
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: 🔲 pdf(538.23 KB)   Additional Information: full citation, references, citings, index terms

7 Statistical methods I: MARK: a boosting algorithm for heterogeneous kernel models

Kristin P. Bennett, Michinari Momma, Mark J. Embrechts
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 🔲 pdf(774.00 KB)   Additional Information: full citation, abstract, references, citings, index terms

Support Vector Machines and other kernel methods have proven to be very effective for nonlinear inference. Practical issues are how to select the type of kernel including any parameters and how to deal with the computational issues caused by the fact that the kernel matrix grows quadratically with the data. Inspired by ensemble and boosting

methods like MART, we propose the Multiple Additive Regression Kernels (MARK) algorithm to address these issues. MARK considers a large (potentially infinite ...

8 Genetic algorithms: Evolving neural network ensembles for control problems

David Pardoe, Michael Ryoo, Risto Miikkulainen

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available: pdf(121.49 KB)   Additional Information: full citation, abstract, references, index terms

In neuroevolution, a genetic algorithm is used to evolve a neural network to perform a particular task. The standard approach is to evolve a population over a number of generations, and then select the final generation's champion as the end result. However, it is possible that there is valuable information present in the population that is not captured by the champion. The standard approach ignores all such information. One possible solution to this problem is to combine multiple individuals fro ...

Keywords: ensembles, genetic algorithms, neural networks, reinforcement learning

9 Reports from KDD-2001: KDD Cup 2001 report

Jie Cheng, Christos Hatzis, Hisashi Hayashi, Mark-A. Krogel, Shinichi Morishita, David Page, Jun Sese

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available: pdf(1.96 MB)   Additional Information: full citation, abstract, references, citings

This paper presents results and lessons from KDD Cup 2001. KDD Cup 2001 focused on mining biological databases. It involved three cutting-edge tasks related to drug design and genomics.

Keywords: Competition, biology, drug design, genomics

10 KDD-99 conference reports: KDD-cup 99: knowledge discovery in a charitable organization's donor database

Saharon Rosset, Aron Inger

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: pdf(557.52 KB)   Additional Information: full citation, citings

11 Data filtering for automatic classification of rocks from reflectance spectra

Jonathan Moody, Ricardo Silva, Joseph Vanderwaart

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(597.99 KB)   Additional Information: full citation, abstract, references, index terms

The ability to identify the mineral composition of rocks and soils is an important tool for the exploration of geological sites. For instance, NASA intends to design robots that are sufficiently autonomous to perform this task on planetary missions. Spectrometer readings provide one important source of data for identifying sites with minerals of interest. Reflectance spectrometers measure intensities of light reflected from surfaces over a range of wavelengths. Spectral intensity patterns may in ...

12 Incorporating contextual information in recommender systems using a multidimensional approach

Gediminas Adomavicius, Ramesh Sankaranarayanan, Shahana Sen, Alexander Tuzhilin

January 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 1

Full text available: 📄 pdf(423.91 KB)　　Additional Information: full citation, abstract, references, index terms

The article presents a multidimensional (MD) approach to recommender systems that can provide recommendations based on additional contextual information besides the typical information on users and items used in most of the current recommender systems. This approach supports multiple dimensions, profiling information, and hierarchical aggregation of recommendations. The article also presents a multidimensional rating estimation method capable of selecting two-dimensional segments of ratings pert ...

Keywords: Recommender systems, collaborative filtering, context-aware recommender systems, multidimensional data models, multidimensional recommender systems, personalization, rating estimation

13 Contribued articles: A critical review of multi-objective optimization in data mining: a position paper

Alex A. Freitas

December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2

Full text available: 📄 pdf(211.81 KB)　　Additional Information: full citation, abstract, references

This paper addresses the problem of how to evaluate the quality of a model built from the data in a multi-objective optimization scenario, where two or more quality criteria must be simultaneously optimized. A typical example is a scenario where one wants to maximize both the accuracy and the simplicity of a classification model or a candidate attribute subset in attribute selection. One reviews three very different approaches to cope with this problem, namely: (a) transforming the original mult ...

Keywords: classification, lexicographic approach, multi-objective optimization, pareto dominance

14 KDD-99 conference reports: Knowledge discovery in databases: 10 years after

Gregory Piatetsky-Shapiro

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: 📄 pdf(264.76 KB)　　Additional Information: full citation, abstract, references

In this paper, we describe the past 10 years of KDD and outline predictions for the next 10 years.

Keywords: KDD, data mining, history, knowledge discovery in databases

15 Intrusion and privacy: Exploiting unlabeled data in ensemble methods

Kristin P. Bennett, Ayhan Demiriz, Richard Maclin

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 pdf(719.46 KB)　　Additional Information: full citation, abstract, references, index terms

An adaptive semi-supervised ensemble method, ASSEMBLE, is proposed that constructs classification ensembles based on both labeled and unlabeled data. ASSEMBLE alternates between assigning "pseudo-classes" to the unlabeled data using the existing ensemble and constructing the next base classifier using both the labeled and pseudolabeled data. Mathematically, this intuitive algorithm corresponds to maximizing the classification margin in hypothesis space as measured on both the labeled and unlabel ...

Keywords: boosting, classification, ensemble learning, semi-supervised learning

16 Learning Ensembles from Bites: A Scalable and Accurate Approach

Nitesh V. Chawla, Lawrence O. Hall, Kevin W. Bowyer, W. Philip Kegelmeyer
December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: pdf(3.34 MB)   Additional Information: full citation, abstract, index terms

Bagging and boosting are two popular ensemble methods that typically achieve better accuracy than a single classifier. These techniques have limitations on massive data sets, because the size of the data set can be a bottleneck. Voting many classifiers built on small subsets of data ("pasting small votes") is a promising approach for learning from massive data sets, one that can utilize the power of boosting and bagging. We propose a framework for building hundreds or thousands of such classifie ...

17 The principled design of large-scale recursive neural network architectures--dag-rnns and the protein structure prediction problem

Pierre Baldi, Gianluca Pollastri
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(231.40 KB)   Additional Information: full citation, abstract, references, index terms

We describe a general methodology for the design of large-scale recursive neural network architectures (DAG-RNNs) which comprises three fundamental steps: (1) representation of a given domain using suitable directed acyclic graphs (DAGs) to connect visible and hidden node variables; (2) parameterization of the relationship between each variable and its parent variables by feedforward neural networks; and (3) application of weight-sharing within appropriate subsets of DAG connections to capture s ...

18 Cluster ensembles --- a knowledge reuse framework for combining multiple partitions

Alexander Strehl, Joydeep Ghosh
March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(842.50 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering *without* accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call *cluster ensembles*. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

Keywords: cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning

19 Generalized additive neural networks

William J. E. Potts
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(628.73 KB)   Additional Information: full citation, references, index terms

Keywords: additive models, partial residuals, predictive modeling

20 Information access and retrieval (IAR): Text classification based on data partitioning

and parameter varying ensembles

Yan-Shi Dong, Ke-Song Han

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Full text available: pdf(231.21 KB)   Additional Information: full citation, abstract, references, index terms

Support vector machines (SVM) are among the best text classifiers so far. Meantimes, ensembles of classifiers are proven to be effective on many domains. It is expected that ensembles of SVM classifiers could achieve better performance. In this paper two types of ensembles on SVM classifiers, the data partitioning ensembles and heterogeneous ensembles, have been proposed and experimentally evaluated on three well-accepted collections. Major conclusions are that disjunct partitioning ensembles wi ...

Keywords: ensemble, support vector machines, text classification

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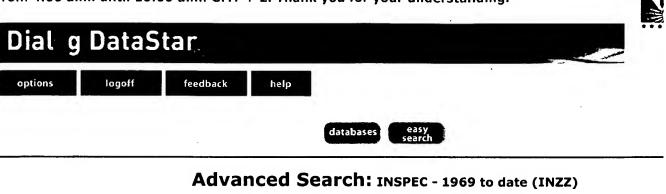
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Generalization error of *ensemble* estimators.

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Abstract
> It has been empirically shown that a better estimate with less generalization error can be obtained by averaging outputs of multiple estimators. This paper presents an analytical result for the generalization error of *ensemble* estimators. First, we derive a general expression of the *ensemble* generalization error by using factors of interest *(bias, variance,* covariance, and noise *variance)* and show how the generalization error is affected by each of them. Some special cases are then investigated. The result of a simulation is shown to verify our analytical result. A practically important problem of the *ensemble* approach, *ensemble* dilemma, is also discussed. (7 refs).

Descriptors
> error–analysis; *feedforward–neural–nets;* generalisation–artificial–intelligence; learning–artificial–intelligence; learning–systems; parameter–estimation.

Keywords
> *ensemble* estimators; generalization error; *bias;* feedforward *neural networks;* covariance; noise *variance;* learning systems; parameter estimation.

Classification codes
> C1230D   *(Neural* nets).
> C1240   (Adaptive system theory).
> C4110   (Error analysis in numerical methods).
> C1220   (Simulation, modelling and identification).

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